



Form PTO 1449		
ATTY DOCKET NO: 89-00	SERIAL NO: 10/039,771	FILING DATE: October 29, 2001
APPLICANT: Roark et al.		GROUP: 1754

## U.S. PATENT DOCUMENTS

Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
MM	4,968,656	11/06/90	Fukuda et al.	502	244	
MM	5,925,590	07/20/99	White et al.	502	302	

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TC 1700

	Document Number	Date	Country	Class	Subclass	Translation Yes/No

## OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

MM		Bethke, G. K. and Kung, H. H., "Selective CO oxidation in a hydrogen-rich stream over Au/ $\gamma$ -Al <sub>2</sub> O <sub>3</sub> catalysts," (March 2000) <i>Appl. Cat. A: Gen.</i> 194-195:43-53. ✓
MM		Gonzalez-Velasco, J. R. et al., "Contribution of cerium/zirconium mixed oxides to the activity of a new generation of TWC," (September 1999) <i>Appl. Catal. B. Env.</i> 22:167-178. ✓
MM		Haruta, M. et al., "Novel gold catalysts for the oxidation of carbon monoxide at a temperature far below 0°C," (1987) <i>Chem. Lett.</i> 405-408. ✓
MM		Haruta, M. et al., "Gold catalysts prepared by coprecipitation of low-temperature oxidation of hydrogen and of carbon monoxide," (1989) <i>J. Catal.</i> 115:301-309. ✓
MM		Haruta, M., "Size- and support-dependency in the catalysis of gold," (1997) <i>Catalysis Today</i> , 36:153-166. ✓
MM		Heiz, U. et al., "Catalytic oxidation of carbon monoxide on monodispersed platinum clusters: each atom counts," (March 1999) <i>J. Am. Chem. Soc.</i> 121:3214-3217. ✓
MM		Hoflund, G. B. et al., "Au/MnO <sub>x</sub> catalytic performance characteristics for low-temperature carbon monoxide oxidation," (1995) <i>Appl. Catal. B: Envir.</i> 6:117-126. ✓
MM		Hoflund, G. B. et al., "Effect of CO <sub>2</sub> on the performance of Au/MnO <sub>x</sub> and Pt/SnO <sub>2</sub> low-temperature CO oxidation catalysts," (1995) <i>Langmuir</i> , 11:3431-3434. ✓



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<i>mm</i>		Hoflund, G. B. et al., "Influence of an Fe promoter on silica-supported Pt/SnO <sub>x</sub> catalysts used for low-temperature CO oxidation," (1995) <i>Catal. Lett.</i> , 31:133-141. ④ ✓
<i>mm</i>		Kahlich, M. et al. <i>Kinetics of the selective CO oxidation in H<sub>2</sub>-rich gas streams on supported noble metal catalysts in New Materials for Fuel Cell and Modern Battery Systems II</i> , Savadogo O. Ed., Ecole Polytechnique: Montreal, 1997. ④ ✓
<i>mm</i>		Oh, S. H. and Sinkevitch R. M., "Carbon monoxide removal from hydrogen-rich fuel cell feedstreams by selective catalytic oxidation," (1993) <i>J. Catal.</i> 142:254-262. ④ ✓
<i>mm</i>		Sekizawa, K. et al., "Selective removal of CO in methanol reformed gas over Cu-supported mixed metal oxides," (May 1998) <i>Appl. Cat. A.: Gen.</i> 169:291-297. ④ ✓
<i>mm</i>		Stark, D. S. and Harris, M. R., "Catalysed recombination of CO and O <sub>2</sub> in sealed CO <sub>2</sub> TEA laser gases at temperatures down to -27°C," (1983) <i>J. Phys. E: Sci. Instrum.</i> 16:492-496. ④
<i>mm</i>		Tschope, A. et al., "Redox Activity of Nonstoichiometric Cerium Oxide-Based Nanocrystalline Catalysts," (1995) <i>J. Catalysis</i> 157:42-50.
<i>mm</i>		Vidal, H. et al., "Influence of high temperature treatments under net oxidizing and reducing conditions on the oxygen storage and buffering properties of a Ce <sub>0.68</sub> Zr <sub>0.32</sub> O <sub>2</sub> mixed oxide," (November 1999) <i>Catal. Today</i> , 54:93-100. ✓

EXAMINER *Maribel Medina*

DATE CONSIDERED

*1/22/04*

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Originally cited in 09/468,034

Form PTO 1449		TC 1700
ATTY DOCKET NO. 89-00	SERIAL NO. 10/039,771	FILING DATE December 20, 1999
APPLICANT Roark et al.		GROUP 1754

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Exmr Initial		Document Number	Date (dd-mm-yyyy)	Name	Class	Subclass	Filing Date if Appropriate
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<i>MM</i>	2	4,661,329	04-28-1987	Suzuki et al.	423	245	
<i>MM</i>	3	5,061,464	10-29-1991	Cordonna, Jr. et al.	423	2113.5	
<i>MM</i>	4	5,843,195	12-01-1998	Aoyama	48	127.7	

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